

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213361

Luminaire Tested: 4SNLED-LD5-16SL-SLW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-16SL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

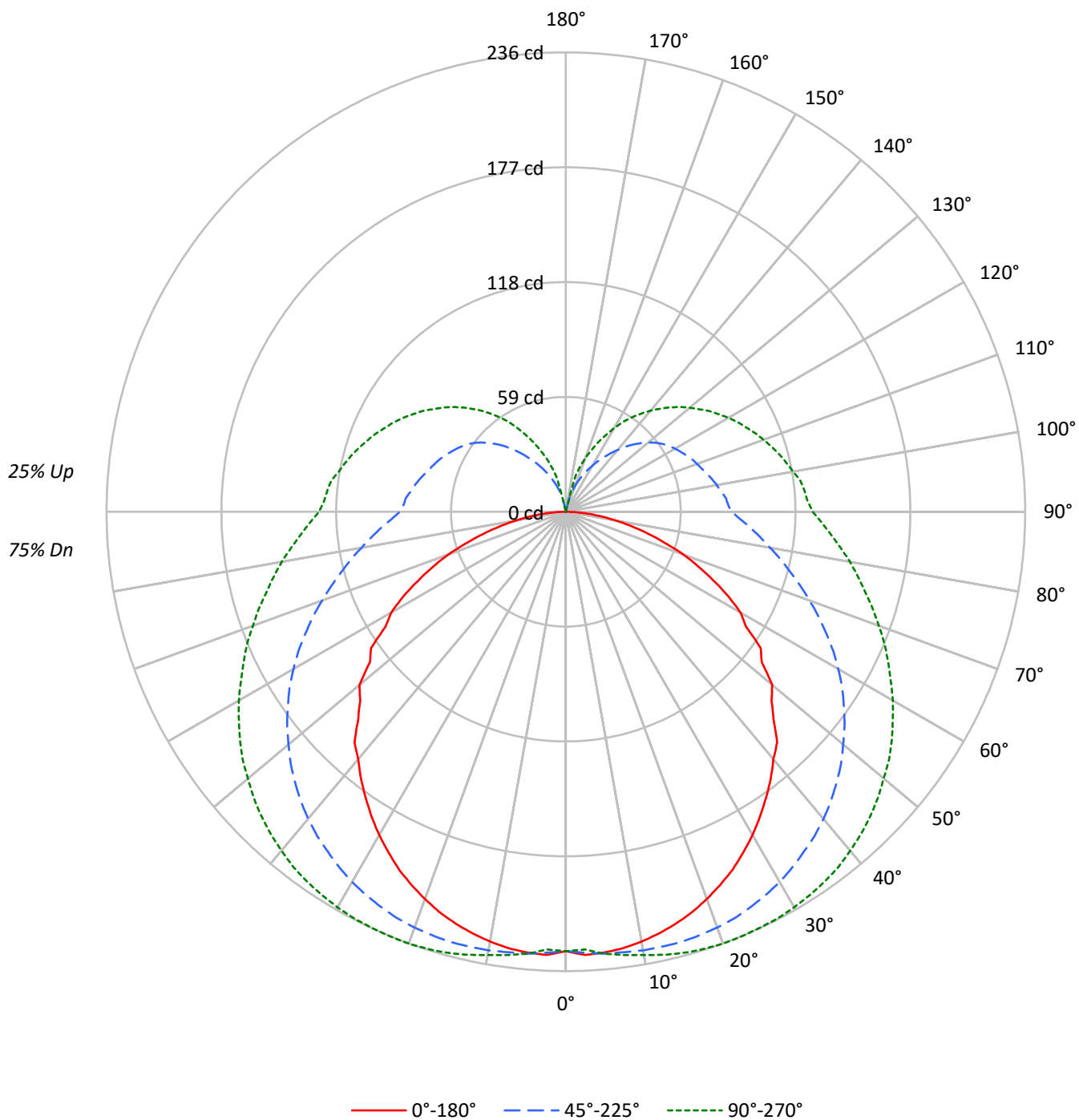
Lumens per Lamp: N/A
Luminaire Lumens: 1300.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1824	1824	1824
5°	1839	1803	1790
10°	1830	1787	1779
15°	1817	1777	1783
20°	1800	1770	1786
25°	1782	1763	1789
30°	1758	1757	1799
35°	1731	1751	1812
40°	1705	1750	1823
45°	1672	1746	1838
50°	1677	1742	1852
55°	1648	1742	1875
60°	1588	1744	1900
65°	1500	1745	1935
70°	1403	1758	1990
75°	1230	1798	2070
80°	1040	1886	2204
85°	772	2061	2399

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 2730 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	1.7
10°-20°	64.3	4.9
20°-30°	102.2	7.9
30°-40°	131.2	10.1
40°-50°	148.1	11.4
50°-60°	151.2	11.6
60°-70°	140.0	10.8
70°-80°	118.6	9.1
80°-90°	94.6	7.3
90°-100°	80.4	6.2
100°-110°	71.6	5.5
110°-120°	61.0	4.7
120°-130°	48.4	3.7
130°-140°	34.4	2.6
140°-150°	20.5	1.6
150°-160°	9.6	0.7
160°-170°	2.3	0.2
170°-180°	0.0	0.0
0°-30°	188.2	14.5
0°-40°	319.4	24.6
0°-60°	618.7	47.6
0°-90°	972.0	74.8
90°-120°	212.9	16.4
90°-150°	316.2	24.3
90°-180°	328.0	25.2
0°-180°	1300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	226	226	226	226	226	
5°	227	225	228	228	228	22
15°	219	221	229	233	235	62
25°	203	210	224	232	236	93
35°	179	192	213	226	232	112
45°	151	171	197	214	221	117
55°	122	143	174	196	204	107
65°	84	112	148	173	183	83
75°	44	78	119	149	159	47
85°	11	50	95	126	137	12
90°	1	41	85	116	127	1
95°	0	38	82	113	123	0
105°	0	35	75	104	114	0
115°	0	33	68	93	102	0
125°	0	28	61	82	90	0
135°	0	21	49	69	76	0
145°	0	14	34	52	59	0
155°	0	9	21	32	39	0
165°	0	5	10	13	19	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	225.7	225.7	225.7	225.7	225.7
2.5°	227.9	225.4	226.7	226.4	225.1
5°	227.3	225.4	227.9	227.9	227.9
7.5°	226.1	224.8	228.2	229.4	229.7
10°	224.2	224.2	228.8	230.6	231.2
12.5°	221.8	222.7	228.8	231.6	233.1
15°	219.0	220.9	228.8	233.1	234.6
17.5°	215.7	218.7	228.2	233.4	235.5
20°	211.7	216.3	227.3	233.4	236.1
22.5°	207.4	213.2	226.1	232.8	236.1
25°	202.8	209.6	224.2	232.2	235.8
27.5°	197.3	205.9	222.1	231.2	235.5
30°	191.8	201.6	219.6	230.0	234.6
32.5°	185.7	197.0	216.6	228.2	233.4
35°	179.3	192.5	213.2	226.4	231.9
37.5°	172.9	187.0	209.9	223.9	230.0
40°	165.9	181.5	205.9	220.9	227.3
42.5°	160.7	175.7	201.6	217.8	224.5
45°	150.9	171.4	196.7	213.8	221.2
47.5°	143.3	163.1	191.8	209.9	217.5
50°	138.4	156.4	186.0	205.3	213.2
52.5°	126.8	151.8	180.5	200.7	209.3
55°	122.2	142.7	174.4	195.8	204.4
57.5°	109.7	136.2	168.3	190.3	199.2
60°	103.6	127.4	161.6	184.8	194.0
62.5°	94.1	119.7	154.9	178.7	188.2
65°	83.7	111.5	147.5	172.9	182.7
67.5°	73.9	103.3	140.5	166.8	177.2
70°	64.5	94.7	133.2	160.7	171.1
72.5°	53.5	86.1	126.2	154.9	165.3
75°	44.0	77.9	119.4	148.8	159.2
77.5°	34.8	70.0	113.0	143.3	153.7
80°	26.3	62.3	106.6	137.5	148.2
82.5°	18.3	55.9	100.8	132.0	142.4
85°	11.3	50.1	95.3	126.2	136.9
87.5°	5.2	44.9	89.8	120.7	131.7
90°	0.6	40.9	85.2	116.1	126.8
92.5°	0.3	39.7	83.4	113.9	124.3
95°	0.0	38.5	82.5	112.7	123.1
97.5°	0.0	37.3	80.3	110.9	121.6
100°	0.0	36.7	78.8	108.1	118.5
102.5°	0.0	35.7	77.0	105.7	116.1
105°	0.0	35.4	75.1	103.6	113.6
107.5°	0.0	34.8	73.3	100.8	110.9
110°	0.0	34.2	71.8	98.4	108.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	33.6	70.3	95.9	105.4
115°	0.0	33.0	68.4	93.2	102.3
117.5°	0.0	32.1	66.6	90.4	99.6
120°	0.0	30.9	64.8	88.0	96.5
122.5°	0.0	29.6	62.9	84.9	93.2
125°	0.0	28.4	60.8	82.2	90.1
127.5°	0.0	26.6	58.3	79.1	86.5
130°	0.0	24.7	55.3	76.1	83.1
132.5°	0.3	22.9	52.2	72.7	79.7
135°	0.0	21.1	48.9	69.3	75.8
137.5°	0.0	19.6	45.2	65.7	71.8
140°	0.0	17.7	41.5	61.4	67.8
142.5°	0.0	15.6	37.9	56.8	63.5
145°	0.0	13.7	34.2	51.9	59.3
147.5°	0.3	12.2	30.9	46.7	54.7
150°	0.3	11.0	27.5	41.5	49.5
152.5°	0.3	9.8	24.1	36.7	44.3
155°	0.3	8.6	21.1	31.8	39.4
157.5°	0.3	7.3	17.7	26.9	34.2
160°	0.3	6.4	14.7	22.6	29.3
162.5°	0.3	5.5	11.9	17.7	24.1
165°	0.3	4.6	9.5	13.1	18.6
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)